

CLAIMS

Sub B> 1. Tube plate (10) for tube bundles for chemical reactors, characterised in that it comprises a plurality of components (11, 12), with a shape which is complementary to one another, in order to form a complete plate (10), wherein the said components (11, 12) are produced separately, and are connected to one another subsequently by means of mechanical joints, in order to form the said tube plate (10).

2. Tube plate (10) according to claim 1, characterised in that the said components (11, 12) which form the said tube plate (10) are joined to one another by means of a plurality of mechanical connections, which join the respective components (11, 12) to one another.

Sub A> 3. Tube plate (10) according to claim 1 or claim 2, characterised in that the said components (11, 12) which form the said tube plate (10) are joined to one another by means of a plurality of pins (15), which are inserted in corresponding holes provided in the respective components (11, 12).

Sub B> 4. Tube plate (10) according to claim 3, characterised in that at least one of the said components (11, 12), has a series of projections (13), which are inserted in corresponding cavities (14) in the respective component, such as to enable the said pins (15) to complete the connection between the said components (11, 12).

5. Tube plate (10) according to claim 4, characterised in that the connection of the said components (11, 12) is completed by means of welded connections (16) between the head of the said pins (15) and at least one of the said components.

6. Tube plate (10) according to claim 4, characterised in that the connection of the said components (11, 12) is completed by means of welded connections (16') between the said components (11, 12).

Sub A2 7. Tube plate (10) according to one or more of the preceding claims, characterised in that it is constituted by means of a pair of semi-circular components (11, 12), which are joined to one another along a median line.

8. Tube plate (10) according to one or more of the preceding claims, characterised in that, in order to guarantee the sealing, seals of any type can be used.

9. Tube plate (10) according to one or more of the preceding claims, characterised in that the said mechanical connections between the components (11, 12) of the said plate (10) can be selected from amongst braces, screws, wedges, cams, and other types of mechanical connection.

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Sub B 10. Tube plate for tube bundles for chemical reactors, petrochemical reactors, refinery reactors and heat exchangers in general, all substantially as described and claimed, and for the purposes specified.